MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2015/2016

PCG0013 – COMPUTER GRAPHICS 1

(All sections / Groups)

03 JUNE 2016
3.00 p.m. - 5.00 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 6 pages with three parts of questions, Part A, Part B and Part C.

2. Answer ALL questions in Part A. Answer only FIVE questions in Part B and TWO in Part C. All marks were indicated in the question.

3. Please print answers for Part A in the MCQ sheet while Part B and C in the Answer Booklet provided.

Part A: Answer all 10 Multiple Choice Questions. Select the best choice. [10 marks]

1. The following affect the legibility and readability of a paragraph except
   a. Kerning
   b. Tracking
   c. Leading
   d. Glyphs

2. Multimedia can contain
   a. only numeric-type data
   b. databases that, in turn, contain other databases, creating a massive data collection
   c. numeric, text, and picture data
   d. graphics, animation, video, music, and voice

3. Which of the following items can a designer include in the master template for Adobe InDesign?
   i. Chapter number
   ii. Body text
   iii. Header and Footer
   iv. Copyright

   a. i and ii
   b. i, ii and iii
   c. i, iii and iv
   d. All of above

4. What are examples of warm colors?
   a. Pink, periwinkle and mauve
   b. Orange, yellow and red
   c. Black, white and gray
   d. Blue, green and purple

5. SVG is correct of the mentioned:
   i. Scalable Vector Graphics
   ii. Standard format created by W3C
   iii. Versatile, all-purpose vector format
   iv. Can contain vector and raster data.

   a. i
   b. i and ii
   c. i, ii and iii
   d. All of above

Continued....

6. The following are TRUE of vector graphics **except**:

    a. Composed of mathematical formulas that define lines, shapes and curves
    b. Lower color quality than bitmap images
    c. Shapes in vector graphics can be filled with textures and patterns that are raster graphics.
    d. Resolution dependent when the image is enlarged or reduced

7. What are the ruler guides for Adobe InDesign?
    a. For guidance for placement of objects
    b. For ensuring all objects are fixed to the grids
    c. To measure the dimension of each object
    d. To ensure all objects are grouped in order

8. In Gestalt principles, what is the name of principles that group the related items together. It is also moved physically close to each other so the related items are seen as one cohesive group rather than a bunch of unrelated bits.
    a. Proximity
    b. Closure
    c. Continuity
    d. Foreground and Background

9. Vector graphic formats include
        i. Encapsulated PostScript files, which use the extension EPS,
        ii. Corel Draw files, which use the extension CDR,
        iii. AutoCAD drawings, which use the extension DXF.
        iv. Binary file format used for storing two- and three- dimensional design data and metadata, DWG.
    a. i
    b. i and ii
    c. i, ii and iii
    d. All of above

10. Three ways of defining RGB values are
        i. Decimal
        ii. Value
        iii. Hexadecimal
        iv. Percentage

    a. i
    b. i and ii
    c. i, ii and iii
    d. i, iii and iv

Continued....

Part B: Answer ONLY FIVE questions below. [10 marks]

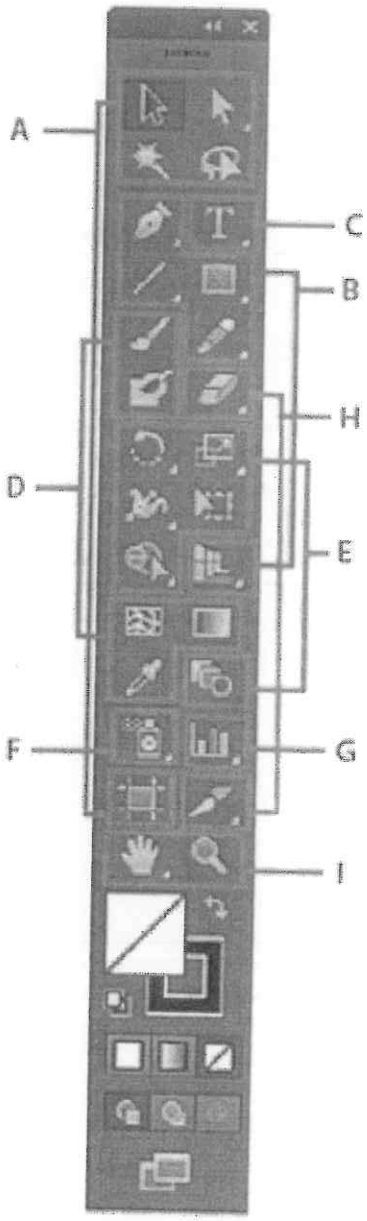

Figure 1. Tool panel for Adobe Illustrator

Figure 1 shows the tools panel that appears on the left side of the screen. Designers can use the tools to create, select, and manipulate objects in Illustrator. Hidden tools also allows type, and select, paint, draw, sample, edit, and move images. **Name and describe the function of the tools in the group.**

Example.
Group A.
(Name the tool: Selection Tools.
(Funtion of the tool: It contains Selection (v) tools to select objects. Direct Selection (A) tools to select point and paths. The Magic Wand tool (Y) selects objects with similar attributes.

11. Group B: Name and fucntion

_____

12. Group C: Name and function

_____

13. Group D: Name and function

_____

14. Group E: Name and function

_____

15. Group F: Name and function

_____

16. Group G: Name and function

_____

17. Group H: Name and function

_____

18. Group I: Name and function

_____

Continued....

Part C: Short Answer [20 marks]. **Answer 2 out of 3 questions**. Feel free to provide the answers with illustration or sketch.

19. There are three possibilities of how a vector work can be presented for a project.
    a. Under the New Document Profile setting in Adobe Illustrator, list down the three formats for presenting the vector graphics. [3 marks]
    b. Describe the differences between each presentation output. [3 marks]
    c. List out the considerations required to display the vector graphics in each output. [4 marks]

20. There are various ways involved in creating a shape in Adobe Illustrator.
    a. Name and elaborate two tools (besides PathFinder) that can be used to create a shape. [6 marks]

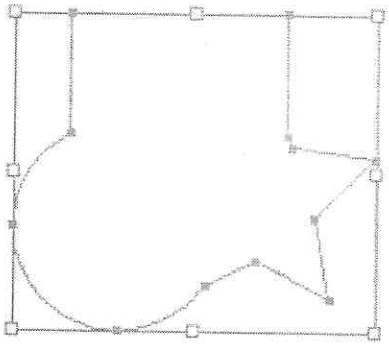

Figure 2. A shape formed using PathFinder

    b. Figure 2 shows a shape formed using the PathFinder tool. Draw the shapes used to create the shape shown above and write down which Shape Modes was used. [4 marks]

Continued....

21. Compare the color pallete in this picture and answer the following questions.

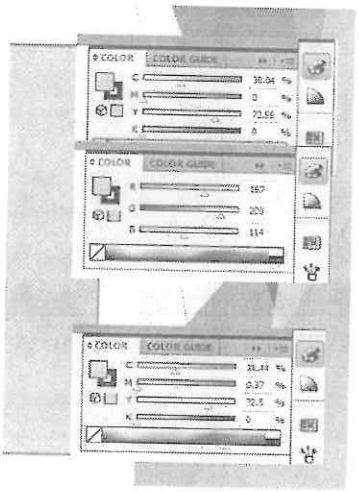

Figure 3. Conversion of color modes

c. Based on Figure 3, explain what are the color modes involved. [2 marks]

d. What are the differences between both color modes. [4 marks]

e. What can you derive from the Figure 3 above? [4 marks]

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